

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended)      An image sensing apparatus comprising:  
an image sensing element that outputs a charge signal in accordance with a light amount of an object image formed on a light-receiving surface;  
a light-shielding unit that shields said image sensing element from incident light;  
an exposure amount loss calculation unit that calculates a loss in exposure amount for said image sensing element caused by operation of said light-shielding unit;  
a plurality of compensation units that compensate ~~a the loss in exposure amount for said image sensing element cause by operation of said light-shielding unit~~ calculated by said exposure amount loss calculation unit;  
a setting unit for setting at least one of an image sensing mode and an image sensing condition; and  
a compensation control unit that controls a compensation amount for each compensation unit based on the loss calculated by said exposure amount loss calculation unit in accordance with the at least one of the image sensing mode ~~of~~ and the image sensing condition that is set by said setting unit.
2. (Original)      The apparatus according to claim 1, wherein said plurality of compensation units include at least an image sensing element control unit that controls a charge accumulation time in said image sensing element and a gain control unit that controls a gain of the charge signal.
3. (Original)      The apparatus according to claim 2, wherein if the at least one of the image sensing mode and the image sensing condition that is set by said setting unit is set to preferentially control the charge accumulation time, said compensation control unit preferentially controls said gain control unit.

4. (Original) The apparatus according to the claim 2, wherein if the at least one of the image sensing mode and the image sensing condition that is set by said setting unit is not set to preferentially control the charge accumulation time, said compensation control unit preferentially controls said image sensing element control unit.

5. (Original) The apparatus according to claim 2, wherein if the image sensing condition set by said setting unit is set to control the charge accumulation time to become equal to or short than a predetermined time, said compensation control unit preferentially time, said compensation control unit preferentially controls said gain control unit.

6. (Original) The apparatus according to claim 2, wherein if the image sensing condition set by said setting unit is set to control the charge accumulation time to become longer than a predetermined time, said compensation control unit preferentially controls said image sensing element control unit.

7. (Original) The apparatus according to claim 1, wherein said light-shielding unit shields light at least for a period during which said image sensing element outputs the charge signal.

8. (Original) The apparatus according to claim 1, wherein said compensation control unit gives a priority order to each of said plurality of compensation units in accordance with the at least one of the image sensing mode and the image sensing condition that is set by said setting unit, and controls the compensation amount for each compensation unit in accordance with the priority order.

9. (Currently Amended) The method of controlling an image sensing apparatus comprising an image sensing element that outputs a charge signal in accordance with a light amount of an object image formed on a light-receiving surface, a light-shielding unit that shields the image sensing element from incident light, a plurality of compensation units that compensate a loss in exposure amount for the image sensing element caused by operation of the

light-shielding unit, and a setting unit for setting at least one of an image sensing mode and an image sensing condition, ~~wherein said method comprising:~~

calculating a loss in exposure amount for said image sensing element caused by operation of said light-shielding unit; and

controlling a compensation amount for each compensation unit is controlled based on the calculated loss in accordance with the at least one of the image sensing mode and the image sensing condition that is set by the setting unit.

10. (Currently Amended) A method of controlling an image sensing apparatus comprising an image sensing element that outputs a charge signal in accordance with a light amount of an object image formed on a light-receiving surface, a light-shielding unit that shields the image sensing element from incident light, an exposure amount loss calculation unit that calculates a loss in exposure amount for said image sensing element caused by operation of said light-shielding unit, a plurality of compensation units that compensate ~~a the loss in exposure amount for the image sensing element caused by operation of the light-shielding unit~~ calculated by said exposure amount loss calculation unit, and a setting unit for setting at least one of an image sensing mode and an image sensing condition, wherein

a priority order is given to each of the plurality of compensation units in accordance with the at least one of the image sensing mode and the image sensing condition that is set by the setting unit, and the compensation amount for each compensation unit is controlled based on the loss calculated by said exposure amount loss calculation unit in accordance with the priority order.

11. (Currently Amended) A ~~storage-computer readable~~ medium, readable by an information processing apparatus, storing a program including program codes capable of realizing the control method according to claim 9, the program being executable by the information processing apparatus.

12. (Currently Amended) A ~~storage-computer readable~~ medium, readable by an information processing apparatus, storing a program including program codes capable of realizing the control method according to claim 10, the program being executable by the information processing apparatus.